

## CONVERSATION RECORD

(time) (date)

| TIME | DATE

1/23/14

VISIT F CONFERENCE TELEPHONE X

F INCOMING  
X OUTGOING

NAME OF PERSON(S) CONTACTED OR IN CONTACT

Ramon Davila

ORGANIZATION (OFFICE, DEPT. ETC.)

PETNET

TELEPHONE NO.

865-218-3295

## SUBJECT

C/N 580329 and questions regarding collection bag system for F-18 effluent release at PETNET St. Louis facility

## SUMMARY

1. Describe the method used to purge/transfer F-18 gas to the collection bag during FDG and AV-45 production runs.
  - A. Include an estimate of the volume and radioactivity of F-18 gas that will be transferred to the collection bag during each production run.
  - B. Describe how you will ensure that the volume of the F-18 gas that is transferred to the collection bag is less than the volume of the collection bag.
2. Describe the exposure rate near the hot cell housing the collection bag, and the estimated accumulated dose for an individual working near the hot cell.
3. Describe the method used to release the F-18 gas from the collection bag to the stack exhaust system.
4. Provide the method used to determine the radioactivity and the concentration of effluent released, and include the detector calibration and detection sensitivity ( $\mu\text{Ci/ml}$ ).
  - A. Provide the method and frequency of detector calibration using  $^{11}\text{CO}_2$  or other positron-emitting gas.
  - B. Since Cs-137 is used as a calibration check source, please derive the effluent concentration conversion factor based on the monitor response to the Cs-137 check source.
5. Describe how you will be able to identify and control an unexpected leak of F-18 into worker spaces or the environment during the transfer of F-18 to or from the collection bag.
6. Please state whether or not the effluent exhaust/filtration system has been modified as a result of installation of the gas collection bag. If it has, please describe the modified system and provide justification for the modifications.

7. Describe the alarm set point that will be established for daily effluent releases of F-18 (mCi/day) after installation of the collection bag system. Please provide the basis for establishing the alarm set point.

ACTION REQUIRED

Submit a written response within 30 days and refer as additional information to Control Number 580329.

NAME OF PERSON DOCUMENTING CONVERSATION

Kevin Null  
Peter Lee

SIGNATURE

*Kevin Null*  
*Peter Lee*

DATE

1/23/14

ACTION TAKEN

SIGNATURE

TITLE

DATE